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A Bibliography of the Arctic Charr, *Salvelinus alpinus* (L.) Complex: 1985-1990

L.G. Heuring, J.A. Babaluk and K.E. Marshall

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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A BIBLIOGRAPHY OF THE ARCTIC CHARR, *Salvelinus alpinus* (L.) COMPLEX: 1985-1990

by

L.G. Heuring, J.A. Babaluk and K.E. Marshall

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba R3T 2N6

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TABLE OF CONTENTS

	Page
ABSTRACT/RÉSUMÉ	iv
INTRODUCTION	1
FORMAT	1
Author index	1
Taxonomic index	1
Geographic index	1
Subject index	1
NOTES ON USING THE INDICES	1
CONCLUSION	2
ACKNOWLEDGMENTS	2
REFERENCES	2
AUTHOR INDEX	3
Appendix	38
TAXONOMIC INDEX	43
GEOGRAPHIC INDEX	44
SUBJECT INDEX	45

ABSTRACT

HEURING, L.G., J.A. BABALUK, and K.E. MARSHALL. 1991 . A bibliography of the Arctic charr, Salvelinus alpinus (L.) complex: 1985-1990. Can. Tech. Rep. Fish. Aquat. Sci. 1775: iv + 46 p.

A list of references published between 1985 and 1990 is presented. In addition to Arctic charr, Salvelinus alpinus (L.), the bibliography lists references for other closely related taxa including Dolly Varden, S. malma (Walbaum), and white-spotted charr, S. leucomaenis (Pallas). The bibliography proper is in alphabetical order by author. Taxonomic, geographic and subject indices are also given.

Key words: bibliographies; Salvelinus alpinus; Arctic charr; Salvelinus leucomaenis; white-spotted charr; Salvelinus malma; Dolly Varden.

RÉSUMÉ

HEURING, L.G., J.A. BABALUK, and K.E. MARSHALL. 1991. A bibliography of the Arctic charr, Salvelinus alpinus (L.) complex: 1985-1990. Can. Tech. Rep. Fish. Aquat. Sci. 1775: iv + 46 p.

On présente une liste des références parues entre 1985 et 1990. En plus des références portant sur l'omble arctique, Salvelinus alpinus (L.), la bibliographie comprend des références ayant trait à d'autres taxons étroitement apparentés, dont la Dolly Varden, S. malma (Walbaum) et l'omble S. leucomaenis (Pallas). La bibliographie elle-même est présentée par ordre alphabétique des noms d'auteurs. Elle contient également un index taxinomique, un index géographique et un index des sujets.

Mots-clés: bibliographies; Salvelinus alpinus; omble arctique; Salvelinus leucomaenis; Salvelinus malma; Dolly Varden.

INTRODUCTION

In conjunction with the International Symposium on Arctic charr held in Winnipeg, Manitoba during 1981 a revision of the bibliography on Arctic charr (Marshall 1977) was published (Marshall 1981). This bibliography included some references missed in Marshall (1977) and most references to the species to 1981. It was the author's intention to periodically supplement that bibliography (Marshall and Layton 1985). Since 1985, hundreds of works on Arctic charr have been published. This bibliography is the latest supplement to Marshall (1977). Most of the references in this report were published between 1985 and 1990. However, there are some references dated prior to 1985 that were not included in the previous bibliographies.

New references have been obtained by searching for Salvelinus on a variety of data bases including Biological Abstracts and Aquatic Sciences and Fisheries Abstracts. Also, periodicals and other publications received by the Freshwater Institute Library (including Fisheries Reviews) were checked for works dealing with the Arctic charr complex. References cited in these works were checked against references on file and some additional items were added.

Whenever possible, original references were checked for accuracy, but as some were not available, there may be errors in some citations.

FORMAT

The format used is similar to that used by Marshall (1981) where the bibliography is divided into four sections: author, taxonomic, geographic and subject indices. References are numbered in the author index so that citations in subsequent indices are by number rather than author and year.

1. Author Index

References are numbered and listed in alphabetical order by author. Works by the same author are arranged by year of publication, the oldest being listed first. Papers written in cooperation with others are listed after those by the senior author alone in alphabetical order by second author. There are no cross references from junior authors.

This index is the bibliography proper. As far as possible the title of the paper in the language in which it is written is given following the year of publication. If this title is enclosed in brackets [ ], this title is not given in the original work. A title enclosed in parentheses is taken from the publication (or its translation), but is in a language, usually English, other than that in which the original paper is written. Russian titles have been transliterated. Japanese titles have been translated, using the title in English from the original journal when this is available. Accents and other diacritical marks have been omitted.

Abbreviations for journals have been made according to the Serial Sources for the BIOSIS Data Base (1988). Those journals not listed in this work have been abbreviated following the same format except in those cases where it has not been possible to identify for certain the full title of the journal in question. In this case, the abbreviation has been given in the form found.

2. Taxonomic Index

This lists, in alphabetical order, the various subgeneric taxa which have been used by authors for fish from the complex. No distinction has been made as to the status ascribed to that taxon by an author.

3. Geographic Index

This index identifies the geographic areas in alphabetical order, when this is of significance, covered by the reference. Canada and the United States have been subdivided into provinces, states or territories. References are only listed under the most specific heading. For example, references indexed under Northwest Territories are not listed under Canada.

4. Subject Index

The alphabetized subject headings in this report are similar to those used in Marshall (1981) and Marshall and Layton (1985). Headings referring to anadromy and non-anadromy have been added.

Since many of the references have not been seen in original form, indexing has been based on the information given by the citing source. It is, therefore, probable that information is present in some papers on subjects not indicated in the indices.

NOTES ON USING THE INDICES

For the benefit of those not familiar with the type of index provided, these notes may be useful.

To locate references on parasites and diseases of charr in Japan, for example, compare the list of reference numbers under the heading "Japan" in the geographic index with those under "parasites and diseases" in the subject index. Those reference numbers which occur in both

lists are potentially relevant. To find the full bibliographic details look up the reference numbers in the author index.

CONCLUSION

This bibliography, of course, is not complete. Manuscripts relating to the subject have been published while the bibliography was in preparation and some references to manuscripts published between 1985-1990 have not been included. Another update (perhaps in five years) will be published as sufficient references are collected. It would be appreciated if authors would forward details of any references that have been omitted as well as corrected references to the following address:

K.E. Marshall
Head, Scientific Information Services and Library
Freshwater Institute Library
501 University Crescent
Winnipeg, Manitoba, Canada, R3T 2N6

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TAXONOMIC INDEX

albus
41

alpinus
1 2 3 4 5 6 7 8 9 10 11 13
15 16 17 18 19 20 21 22 27 28 30 31
32 33 34 35 36 37 38 39 40 41 44 45
46 47 48 49 50 51 53 55 56 58 59 60
61 62 63 64 65 66 67 68 69 70 72 73
74 77 79 81 82 83 84 87 90 91 93 94
95 96 99 101 102 103 104 105 106 107 108 109
110 113 114 115 116 117 118 119 120 121 122 123
124 125 126 127 128 129 130 131 132 133 134 135
136 139 140 141 142 143 144 145 146 147 148 149
150 151 152 154 155 156 157 158 159 160 161 162
163 164 165 166 167 168 169 170 172 173 174 176
177 179 180 185 186 187 189 190 191 193 194 197
198 199 203 204 205 206 207 210 211 212 213 214
215 216 217 218 219 220 221 222 223 225 226 227
228 229 230 233 234 235 237 239 241 242 243 244
245 247 248 249 250 251 252 254 257 258 259 260
261 262 264 266 267 268 269 270 273 274 275 276
277 283 284 285 286 287 288 289 290 291 292 293
294 296 297 298 300 301 302 303 304 305 306 307
310 311 312 313 314 315 316 317 321 322 324 327
329 330 331 332 333 334 335 336 337 338 339 340
341 343 344 345 346 347 348 349 350 351 352 353
355 356 358 361 362 363 364 365 366 367 368 369
370 371 373 375 378 380 381 389 390 391 392 394
395 396 397 398 403 404 405 406 407 409 410 411
413 414 415 416 417 420 421 442 423 424 425 426
428 429 430 431 438 439 440 441 442 443 444 445
446 448 449 450 451 452 453 454 455 456 457 458
459 460 461 462 463 464 470 471 472 473 474 475
476 477 478 481 482 484 485 486 487 488 489 490
491 494 495 499 500 501 502 503 504 505 506 507
509 510 511 512 513 514 515 516 517 518 519 520
521 523 524 527 528 529 530 531 532 533 534 535
535 536 537 538 539 540 541 542 543 545 546 547
549 551 553 554 555 556 557 558 559 560 561 562
563 564 566 568 569 571 572 573 574 576 577 578
579 580 581 582 583 584 585 586 589 590 593 599
600 601 602 603 604 612 614 615 616 618 619 620
621 622 623 624 625 626 627 629 630 631 634 635
636 640 642 645 646 647 650 652 653 654 655 656
657 660 661 662 663 664 666 669 699 671 671 672
674 675 676 677 678 681 683 684 685 689 690 691
694 695 696 697 702 703 704 705 708 709 710 711
712 713 714 715 716 718 720 721 722 723 725 726
728 729 730 731 734 773 738

confluentus
41 54 76 79 171 202 360 496 683 738

lepechini
565

leucomaenis
25 41 88 89 136 181 182 200 201 208 236 271
279 280 281 318 319 323 328 342 354 372 399 400
401 402 432 433 434 435 436 437 465 466 467 480
547 592 594 595 606 609 617 628 632 633 638 680
692 699

levanidovi
665

malma
18 23 26 41 79 85 88 92 111 112 137 138
152 181 195 208 253 255 256 263 265 272 279 282
308 309 319 342 357 359 382 383 384 385 386 387
401 418 419 427 479 483 496 508 523 524 525 526
547 552 569 587 588 596 597 598 648 672 673 683
692 698 699 704 726

miyabei
383 384 386 387 388 698

pluvius
401 595 637 686 727

profundus
242

Salvelinus spp.
24 42 75 80 188 196 209 240 462 492 493 497
498 549 550 552 608 610 613 644 649 732 733

stagnalis
178

taranetzi
552

GEOGRAPHIC INDEX

Austria
284 487 488 489 490 514 515 516 542 579

Canada
98 100 119 120 159 237 405 482 524 566 567 643 659 670 687 693 701 706 707 711 718

Alberta
54 76 134 256

British Columbia
18 92 171 272 309 359 587 588 674

Manitoba
134 416

New Brunswick
175

Newfoundland and Labrador
22 51 52 61 62 63 70 124 125 126 127 128 129 130 131 132 222 226 232 361 379 509 513 541

Northwest Territories
29 35 43 50 53 62 72 73 74 96 103 106 130 141 142 183 184 194 215 277 305 306 321 351 352 353 367 373 374 375 376 377 406 407 408 412 424 522 523 570 571 573 575 581 582 583 614 640 641 652 674 676 682 684 703 720 722 723 724 725 736 737

Ontario
53

Quebec
7 8 18 48 49 56 57 58 71 101 102 104 140 173 174 192 193 363 510 646 660 661 688 714 721

Saskatchewan
134

Yukon Territory
59 60 96 522 573 649 711

Denmark
689

Europe
364 428 566

France
84 123 358 378

Finland
317 341 438 629 712

Greenland
93 221 422 511 527 528 529 574

Iceland
6 151 172 210 211 212 213 216 316 345 346 348 389 394 395 396 398 519 544 545 546 557 559 560 561 562 570 599 618 677

Ireland
160

Japan
24 80 181 182 201 271 278 279 280 319 382 383 386 387 388 399 400 432 433 434 435 547 591 594 611 692 698

Mexico
618

North America
79 133 214

Norway
1 2 3 13 14 15 17 19 20 21 33 44 45 46 47 107 108 109 133 186 205 206 207 217 250 251 252 260 276 286 287 288 289 290 292 315 331 332 333 334 335 336 337 338 349 356 429 439 448 449 450 451 452 453 504 505 506 517 519 520 530 532 533 535 553 558 563 578 584 585 586 593 654 656 657 690 697 709

Scandinavia
5 214

Sweden
10 11 113 114 115 116 135 154 155 156 161 162 163 170 176 177 178 179 180 199 209 210 218 220 224 227 228 229 233 234 235 243 248 259 260 261 368 369 370 371 413 414 415 425 430 431 440 441 444 445 454 455 456 458 459 460 461 463 464 471 631 695 708 710 728 734

Switzerland
242 362 409 421 536 537 538 539 540 644 645 715

United Kingdom
36 37 38 39 90 91 185 239 324 390 391 392 417 485 543 621 705

United States of America

Alaska
26 31 32 35 80 99 111 112 138 153 159 246 253 265 282 308 357 385 386 418 419 427 479 483 508 526 569 647 648 655 660 664 667 668 669 671 676 679 681 702 704 705 717 726 735

Maine
18 283 327

Montana
80 171 360

Wyoming
18

USSR
85 86 87 133 137 486 550 551 552 555 600
601 618 627 665 731 732 733

West Germany
55 66 67 68 69 187 188 241 247 266 267
268 322 329 330 365 492

Yugoslavia
613 619

SUBJECT INDEX

Age Determination
32 35 39 208 368 513 537 580 605

Anadromous
8 22 26 27 29 31 34 38 40 44 45
46 47 51 56 57 58 59 60 62 63 71
72 73 74 93 99 100 101 106 111 112 119
120 121 124 125 127 128 129 130 131 132 140
141 142 153 163 171 191 193 194 201 205 208
213 215 221 222 232 237 270 282 296 306 315
321 333 335 347 351 352 353 357 359 367 374
375 376 377 382 383 386 407 408 412 439 447
448 449 451 452 461 462 486 509 510 511 513
517 518 520 522 523 524 530 541 547 552 554
555 558 569 570 575 576 577 578 584 591 593
600 601 605 617 620 626 640 646 656 657 665
667 669 719 731

Anatomy and Morphology
36 37 38 85 86 125 169 170 185 197 256
382 398 404 432 437 450 486 499 551 552 559
560 561 568 585 621 642 665 692 695 726

Aquaculture
1 5 25 28 30 40 44 78 87 94 117
118 119 120 122 134 139 157 179 245 251 270
287 288 292 293 294 297 343 344 350 405 416
428 431 432 440 481 482 483 502 503 504 505
506 517 518 521 530 532 533 534 558 566 567
579 590 602 603 604 612 616 623 624 625 626
631 644 645 650 685 709 710 711 712 713 716
734

Behaviour
7 17 65 75 77 101 182 275 291 311 313
314 355 387 472 476 478 525 554 625 666 696
709

Bibliographies
397 701 719

Blood
143 144 145 146 147 148 149 167 168 169 191
203 335 678 680

Development
75 97 125 202 285 384 449 486 561 600 622
631 695

Distribution
34 41 52 66 67 68 99 125 126 127 130
131 161 212 216 222 250 252 253 263 271 272
283 319 341 378 438 513 545 587 593 617 622
670 679 687 693 714

Ecology
20 23 36 37 38 155 156 171 181 193 212
218 222 223 224 226 278 290 302 303 304 337
369 414 418 435 446 490 526 594 614 615 618
664 690 706 707 719 721 722 723

Environmental Impact
3 113 114 138 153 393

Fisheries
1 12 22 26 29 43 56 57 58 59 60
98 100 163 183 184 187 192 205 367 379 300
408 479 522 538 581 582 583 591 593 629 641
651 652 659 660 663 682 684 688 717 724 725

Fisheries, Commercial
22 72 73 74 128 162 277 322 324 347 348
351 352 361 362 374 406 509 513 539 575 640
720 736 737

Fisheries, Domestic
56 57 58 100 183 184 194 361 367 379 575
641 668 674 682

Fisheries, Sport
66 246 325 326 327 367 424 430 434 539 648
655 672 675 702

Fishery Biology
87 307

Food and Feeding Habits
2 3 6 7 8 14 15 16 17 36 37
38 49 54 59 64 71 94 95 99 105 107
123 137 142 147 158 173 176 177 178 180 181
186 187 188 205 233 234 235 248 252 255 259
261 272 290 294 295 298 299 300 310 322 336
355 394 395 410 411 413 415 429 515 525 533
535 561 590 591 595 602 621 643 646 661 666
691 704

General Works
223 390 442 443 581 582 583 667 670 687 693
706 707 717

Genetics
25 34 41 79 80 88 90 91 132 136 139
159 160 195 200 201 204 206 213 227 238 239
301 331 335 372 389 403 440 463 466 467 493
494 495 496 497 498 501 523 524 607 608 610
611 626 627 629 638 639 677 683 699 710 713
728 735

Growth
17 28 30 31 35 36 38 39 44 46 55
76 85 95 118 129 147 157 163 173 199 208
269 270 287 288 291 292 293 294 296 297 384
399 410 423 431 440 460 463 502 507 530 531
537 540 558 559 580 584 589 600 602 603 604
612 623 624 625 627 631 645 646 650 653 656
666 694 695 709 715 733

Habitat
659 700

Hybrids
136 200 225 360 611 728

Immunological Studies
110 318 401

Introductions, Stocking and Transplantation
66 67 68 69 81 84 154 174 199 242 243
260 317 323 370 425 441 442 443 444 445 488
508 537 538 586 619 629 689

Migrations and Movements
26 45 46 47 51 60 106 111 112 127 129
130 140 141 194 215 250 271 282 308 309 315
357 374 375 376 383 415 419 447 510 513 555
569 586 588 605 606 657 669 679 703 708

Nonanadromous
1 3 10 11 13 14 15 34 42 44 55
56 57 58 63 69 86 100 103 107 113 114
115 116 119 126 135 154 155 156 163 170 173
175 176 177 178 180 190 199 201 207 209 213
220 221 222 224 225 233 234 235 242 247 248
261 265 270 283 284 286 290 315 316 325 326
327 333 336 337 338 349 350 365 366 368 369
370 371 373 378 386 394 398 399 413 414 417
425 429 430 439 440 446 451 452 454 459 460
461 462 463 483 490 508 511 515 516 522 523
524 525 526 528 529 530 532 533 535 536 537
538 539 540 541 543 544 545 546 547 551 554
557 558 559 560 561 562 563 568 574 577 578
584 585 586 594 599 614 615 617 620 621 626
705 708 712

Olfaction
470 471 472 473 474 475 476 477 729 730

Parasites and Diseases
4 18 33 48 49 50 53 55 61 62 63
70 92 102 103 104 105 106 133 150 172 175
189 190 217 228 248 249 254 257 258 260 266
268 279 318 332 340 349 350 365 396 433 436
492 514 542 565 571 572 573 613 628 637 654
658 685 686 718 734

Physiology and Biochemistry
9 27 77 89 110 121 141 142 143 144 145
146 147 148 149 152 164 165 166 167 169 236
237 244 247 281 291 295 296 308 310 311 312
328 340 342 354 380 381 398 402 411 426 436
439 465 478 480 491 516 531 532 533 543 547
553 564 576 577 578 589 595 596 597 598 599
602 604 626 630 632 633 634 635 636 642 643
649 660 661 662 678 680 701 727 729 730

Pollution Studies (includes Acid Rain)
10 11 19 21 93 113 114 115 155 156 229
233 240 241 243 275 283 310 312 313 314 358
363 364 369 370 371 421 425 426 454 455 456
534 563 673 689 697 725

Population Genetics
42 210 211 212 214 220 221 227 247 256 262
264 272 316 331 333 341 439 453 457 458 461
464 484 485 501 549 556 609 618 676

Population Studies
2 19 35 36 38 59 60 76 81 82 84
99 109 116 118 124 125 126 129 130 131 132
138 153 171 173 174 179 181 188 193 194 206
207 213 220 226 232 241 252 276 284 289 302
304 305 306 309 316 321 329 330 331 332 337
338 345 346 353 356 357 359 366 371 373 377
382 391 392 393 407 412 417 422 427 448 451
452 488 489 504 509 511 513 517 519 520 521
527 528 529 537 541 544 546 549 551 555 563
569 570 574 587 588 617 621 631 647 656 663
671 672 684 695 702 705 717 731

Proceedings of...
12 78 230 231 307 320 339 512

Reproduction
4 36 38 68 85 87 101 112 122 125 129
141 142 151 152 170 171 198 265 267 273 274
343 344 385 386 387 388 409 420 421 453 486
536 537 540 557 559 562 622 694 698 738

Reviews
18 97 319 327 331 334 433 462 738

Taxonomy
41 42 76 80 85 196 202 278 319 459 462
496 556 665